

ASDI to SWIM Transition

January 19th, 2016



Federal Aviation
Administration



Agenda

- **SWIM On-Ramping Process**
- **Overview of Transition Status**
- **Critical Milestones**
- **Frequently Asked Questions**
- **Open Discussion**

Overview of Transition Status

- **January 2013** – TFMS announces intent to decommission ASDI service
- **Early 2014** – SWIM begins outreach via email, phone calls, and user forums to discuss transition process
- **April 2014** – ASDI Replacement (TFMData) available in R&D
- **February 2015** – TFMData made available in operational environment via NEMS
- **November 2015** – FAA extended deadline and notified ASDI subscribers in writing of intent to decommission ASDI on April 29th, 2016
- **January 2016** – 33 consumers have not successfully transitioned to Operations
 - 9 are expected to transition in next 30-60 days
- **24 subscribers remain to be transitioned by April**

Process for New External Consumers

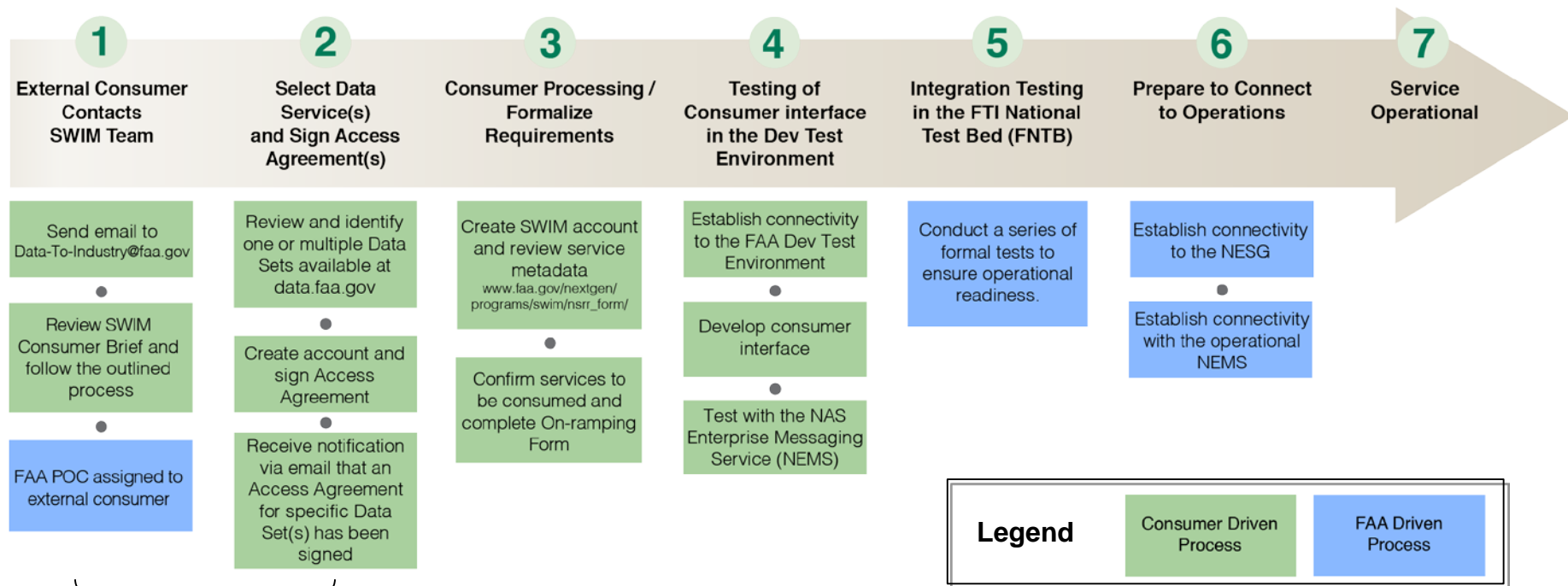
Primarily consumer driven and highly dependent on consumer technical competency and preparedness

Primarily FAA driven for ordering and change management

1-3 weeks

12-16 weeks

6-9 weeks



Note: Steps are not necessarily serial

Upcoming Critical Milestones

- **January 12th, 2016** — next ASDI to SWIM Transition Meeting
 - Signed Access Agreement for TFMDData
 - Data.faa.gov
- **January 21st, 2016**
 - Consumer has provided critical information to SWIM POC:
 - Consumer Client type they will use to connect to Operational NEMS
 - ActiveMQ or WebLogic
 - IP Addresses they will use in operations to access NEMS
 - VPN endpoint
 - Consumer IP address(es)
- **February 1st, 2016**
 - FAA objective to input operational orders to NEMS vendor to ensure that service is delivered by ASDI termination
 - Priority will be given to those consumers that have provided the information requested by January 21st, 2016.

Upcoming Critical Milestones – cont'd

- **February 15th, 2016** – Consumer has completed or scheduled FNTB consumer qualification testing
 - Early date allows for changes to client in event issues identified during FNTB consumer qualification testing
 - Some known exceptions apply
- **March 31st, 2016** – Target date for all transitioning subscribers to be transitioned to Operations
 - Early date allows for parallel operations on part of consumer
 - Some known exceptions apply
- **April 29th, 2016** – FAA committed date for decommissioning of ASDI service

Frequently Asked Questions

- **Will NATS UK / London Data be available on SWIM?**
 - No, NATS UK data is not currently available to external consumers
 - If you are a current ASDI consumer receiving NATS UK data, we hope to resolve this by April 29th when ASDI is decommissioned
- **Will the BARR List be available on SWIM?**
 - The FAA will be making no changes to the BARR list resulting from the transition to SWIM,
- **Will the FAA provide an API client for use by TFMDData consumer?**
 - No, the FAA is unable to provide API clients. The FAA has provided a Jumpstart kit to assist with development.
- **Is it acceptable to use a client that has been developed and tested by another ASDI consumer?**
 - Yes, you may work with other transitioning ASDI consumers to develop your own client or you may use their developed and tested client. If you choose to utilize a FNTB qualified client you may deploy directly to operations from R&D.
- **What is driving the April 29th, 2016 decommission date?**
 - The April 29th date is linked to a TFMS Software deployment.
- **What are the differences between the ASDI feed and the SWIM TFM feed?**
 - CSC has provided a whitepaper describing the differences between the ASDI and SWIM TFM Feeds. The whitepaper is located at http://www.faaindustryforum.org/Paper_FlightDataComparisonToASDI-Final.pdf

Update From Consumers

- **What issues are you experiencing that are preventing you from completing R&D or FNTB qualification?**
- **What types of assistance from the FAA would you find beneficial in your transition?**

Reserve for CSC Slides



Pre-Operational Deployment Key Contacts

- Your organization has been provided a POC upon entry into the external consumer on-ramping process

Mailbox: Data-To-Industry@faa.gov

- | | |
|-----------------------|--|
| • Alex Prikhodko | Alexander.ctr.prikhodko@faa.gov |
| • Brandon Wang | Brandon.ctr.wang@faa.gov |
| • David Wickes | David.ctr.wickes@faa.gov |
| • Wendy Swartz | Wendy.ctr.swartz@faa.gov |
| • Rob Johnson | Robert.ctr.johnson@faa.gov |
| • Michelle Sreedharan | Michelle.ctr.sreedharan@faa.gov |
| • Alex Murray | Alexander.ctr.murray@faa.gov |
| • Brian Romanik | Brian.ctr.romanik@faa.gov |

Backup Slides



Client Development in the Dev Test Environment

- **First time External Consumers connect to Dev Test Environment**
- **Start client development in parallel with establishing connectivity to Dev Test Environment**
- **Tips to Consumers**
 - Review the NEMS User Guide
 - Determine JMS Client Type as early as possible (*see next slide*)
 - Understand Basic and Enhanced capabilities of NEMS
 - Identify critical staff to facilitate development
 - Identify experienced Java Message Service (JMS) Developer
 - Review the SWIM Jump start kit
 - To avoid client development process, consider licensing JMS client from third party

Client API Versions and Standards Supported by SWIM NEMS

JMS Client API's			
Vendor:	Oracle	FuseSource	Solace
Name:	WebLogic 11g	ActiveMQ	Solace
Version:	10.3.5.0	5.5.1	7.1.0.207

Web Services	
Feature:	Specification:
Web service description	Web Services Description Language (WSDL) 1.1 - XML-based specification that describes a Web service.
Data exchange between Web service and requesting client	Simple Object Access Protocol (SOAP) 1.1 and 1.2 - Lightweight XML-based protocol used to exchange information in a decentralized, distributed environment.
Reliable communication	Web Services Addressing (WS-Addressing) 1.0 - Transport-neutral mechanisms to address Web services and messages